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How do we create the optimum environment that includes trees?







CHANGE IN OUR AWARENESS

People start realizing that our environments contribute to factors that allow us to enjoy life, be healthy and live longer.

Blue Zones Living Better Longer Dan Buettner at TEDMED 2011 Urban Street Trees: 22 Benefits by Dan Burden National Complete Streets Coalition





CHANGE IN OUR AWARENESS



TABLE 1 Large metro areas, ranked by Pedestrian Danger Index					
Rank	Metropolitan area	Total pedestrian deaths (2003-	Annual pedestrian deaths per 100,000	Percent of people commuting	Pedestrian Danger Index
2	Orlando-Kissimmee, FL	2012)	(2008– 2012)	by foot (2008–2012)	(2008 <u></u> 2012)
100	Tampa-St. Petersburg- Clearwater, FL	583	2.75	1.1	
3	Jacksonville, FL	874	2.97	1.1	244.28
4	Miami-Fort Laude	359		1.6	190.13
	Miami-Fort Lauderdale-Pompano Beach, FL	559	2.48	1.4	
		1,539	2.58		182.71
			2.00	1.8	145.33

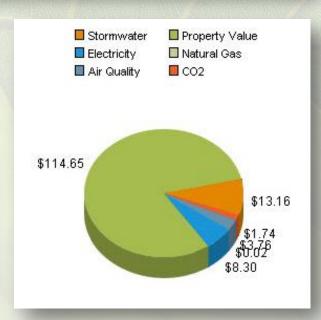


CHANGE IN OUR AWARENESS

Trees are the utility that pays us back. (www.itreetools.org; USDA Forest Service)

This 12 inch Live oak provides overall benefits of: \$142 every year.







PLANNING – Making sure the right professionals have a seat at the table

DESIGN – Providing the space needed to optimize the environment

CONSTRUCTION – Oversight makes it work

MAINTENANCE – Care is necessary



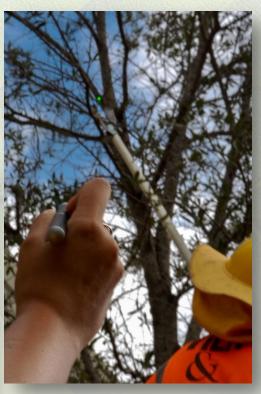


PLANNING – Making sure the right landscape professionals have a seat at the table

LANDSCAPE PROFESSIONALS:

- LANDSCAPE ARCHITECTS (RLA)
- CERTIFIED ARBORISTS (ISA)
- CERTIFIED LANDSCAPE INSPECTORS (LIAF)







PLANNING – Making sure the right landscape professionals have a seat at the table

INCLUDE LANDSCAPE PROFESSIONALS IN APPROPRIATE DEPARTMENTS:

- PARKS AND RECREATION
- PLANNING
- PUBLIC WORKS
- TRANSPORTATION
- CONSTRUCTION MANAGEMENT









PLANNING – Making sure the right landscape professionals have a seat at the table

LANDSCAPE PROFESSIONALS SHOULD BE INCLUDED IN:

- MASTER PLANNING
- PROJECT DEVELOPMENT AND ENVIRONMENT STUDY
- DESIGN GUIDELINES
- MOBILITY STUDIES
- WALKABILITY STUDIES
- SUSTAINABLITY STUDIES
- POLICIES
- WRITING CODES
- PLAN REVIEWS
- PERMIT REVIEWS





DESIGN – Providing the space needed to optimize the environment



UTILITIES



DESIGN – Providing the space needed to optimize the environment



ROOT SPACE



DESIGN – Providing the space needed to optimize the environment

DETERMINING LANDSCAPE OPPORTUNTIES:

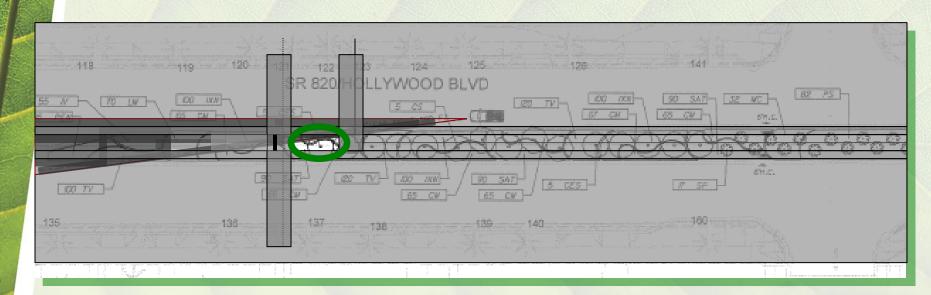
- Limits of Clear Sight
- Horizontal Clearance
- Roadway Signage
- Utilities and off sets
- Vegetative Management Zones
- Access Management
- Intelligent Transportation Systems
- Signage





DESIGN – Providing the space needed to optimize the environment

LANDSCAPE OPPORTUNTIES:



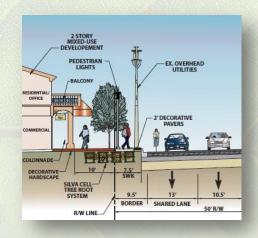


DESIGN – Providing the space needed to optimize the environment

DETERMINING LANDSCAPE OPPORTUNTIES:

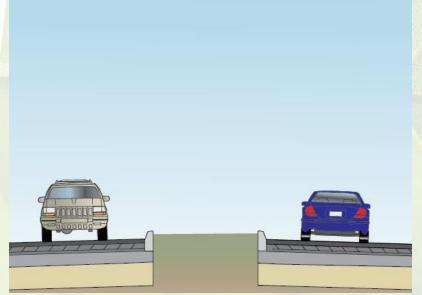
Solutions

- Landscape Architect
- Road Diets
- Wider Medians
- Utility Locations Restrictions
- Access Management
- Intelligent Traffic System Equipment Coordination
- Signage Coordination
- Multi-Use of Tree Root Space Pedestrian/Trees sharing the same space

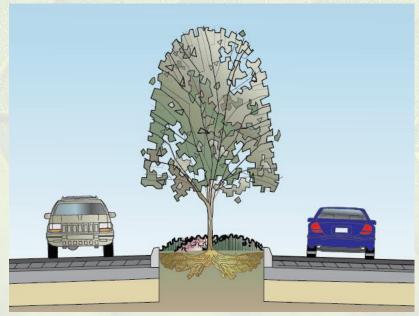


DESIGN – Providing the space needed to optimize the environment

LANDSCAPE OPPORTUNTIES:







13 FT MEDIAN



AVOIDING CONSTRUCTION IMPACTS-



TREE PROTECTION



AVOIDING CONSTRUCTION IMPACTS DURING DESIGN



NEVER CUT ROOT CLOSER THAN THE DISTANCE OF 5 TIMES THE TRUNK DIAMETER



AVOIDING CONSTRUCTION IMPACTS DURING DESIGN





NEVER CUT ROOT CLOSER THAN THE DISTANCE OF 5 TIMES THE TRUNK DIAMETER



DESIGN SOLUTIONS -





SIDEWALK RAMPING



DESIGN SOLUTIONS -





SIDEWALK RAMPING



DESIGN SOLUTIONS -



ROOT GRINDING





DESIGN SOLUTIONS -





BONDED
AGGREGATE
TREE
SURROUND





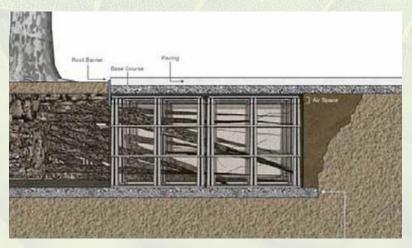


DESIGN SOLUTIONS -



UNDERGROUND TREE CELLS







CONSTRUCTION – Oversight makes it work





CONSTRUCTION – Oversight makes it work









CONSTRUCTION – Oversight makes it work





MAINTENANCE - Care is necessary

- REGULAR MAINTENANCE SCHEDULES
- COMMUNITY TREE INVENTORY
- CANOPY TRIMMING DONE BY CERTIFIED ARBORISTS
- AVOID WEEDEATER DAMAGE









THANK YOU. BE SURE TO UTILITIZE FLORIDA'S EXPERTS

http://ifas.ufl.edu

FLORIDA GRADES AND STANDARDS FOR NURSERY STOCK



